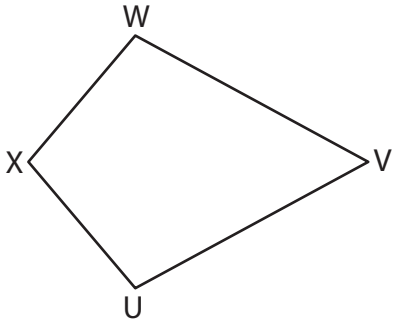
Name : _____

Kite - Angles

Sheet 1

A) Solve for x in each kite and find the measure of the indicated angle.

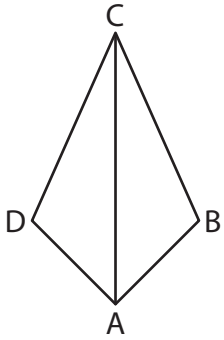
1)



$m\angle U = (6x)^0$; $m\angle W = (51 + 3x)^0$

x = _____ ; m

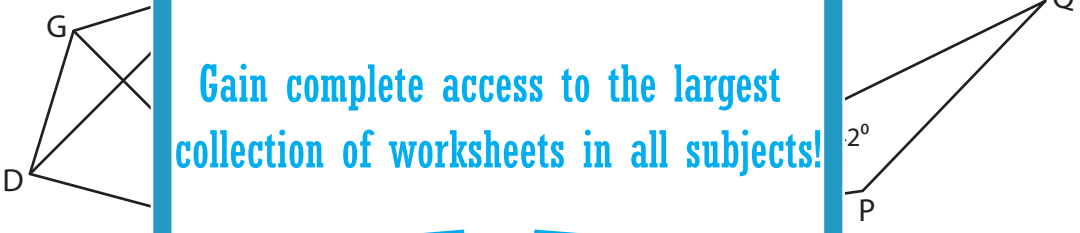
2)



$m\angle DCA = (56 - x)^0$; $m\angle BCA = (x - 8)^0$

; $m\angle BCA$ = _____

3)



$m\angle GFD = (x + 3)^0$; m

x = _____ ; m

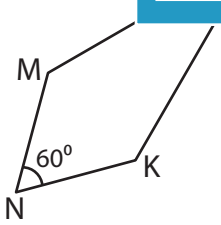
$36)^0$; $m\angle Q = (-4x - 4)^0$

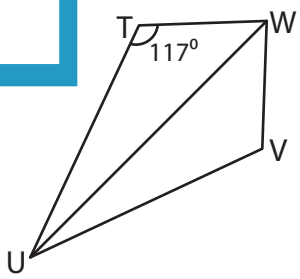
_ ; $m\angle Q$ = _____

B) Solve for x in each

ngles.

5)





$m\angle K = (39 + 8x)^0$; $m\angle L = (4x - 18)$

x = _____ ; $m\angle M$ = _____

$m\angle K$ = _____ ; $m\angle L$ = _____

$m\angle TWU = (1 + 2x)^0$; $m\angle WUV = (-1 + x)^0$

x = _____ ; $m\angle VWU$ = _____

$m\angle TUW$ = _____ ; $m\angle W$ = _____

Name : _____

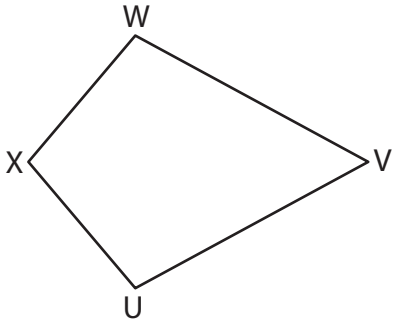
Answer key

Kite - Angles

Sheet 1

A) Solve for x in each kite and find the measure of the indicated angle.

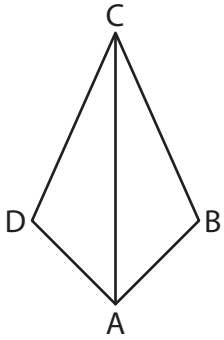
1)



$m\angle U = (6x)^0$; $m\angle W = (51 + 3x)^0$

$x =$ 17 ; m

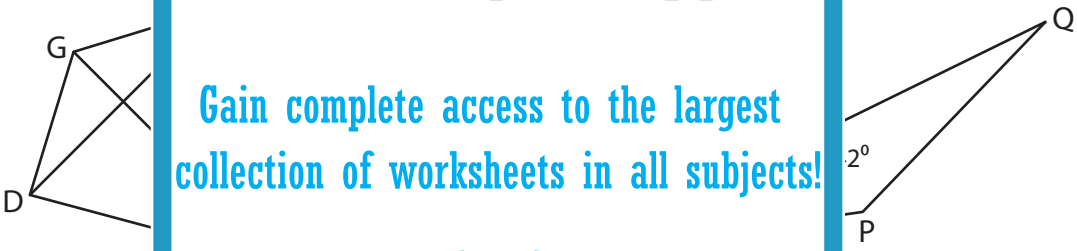
2)



$m\angle DCA = (56 - x)^0$; $m\angle BCA = (x - 8)^0$

; $m\angle BCA =$ 24°

3)



$m\angle GFD = (x + 3)^0$; m

$x =$ 25 ; m

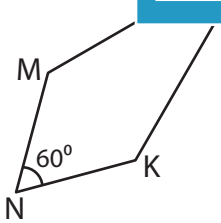
$36)^0$; $m\angle Q = (-4x - 4)^0$

; $m\angle Q =$ 20°

B) Solve for x in each

ngles.

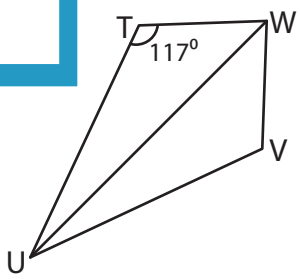
5)



$m\angle K = (39 + 8x)^0$; $m\angle L = (4x - 18)$

$x =$ 12 ; $m\angle M =$ 135°

$m\angle K =$ 135° ; $m\angle L =$ 30°



$m\angle TWU = (1 + 2x)^0$; $m\angle WUV = (-1 + x)^0$

$x =$ 21 ; $m\angle VWU =$ 43°

$m\angle TUW =$ 20° ; $m\angle W =$ 86°